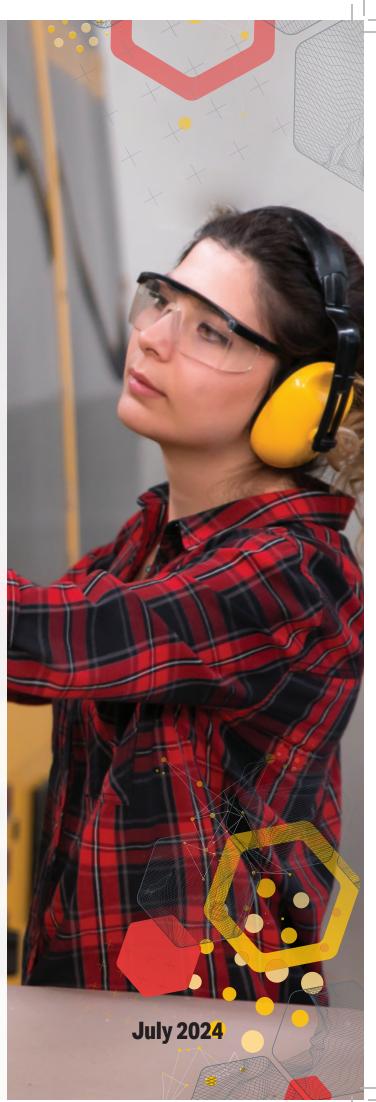
HOULNE CENTER FOR CONVERGENT TECHNOLOGY

A joint-venture in Industrial, Manufacturing, and Construction Technology Training









The Economic Importance of Growing Missouri's Skilled Manufacturing Workforce

ndustry and manufacturing are key to Missouri's economy and fuel prosperity at the regional, state, county, and local levels. Thriving manufacturing and construction sectors are only possible when a sufficiently large, sufficiently skilled workforce is available. In turn, those good paying jobs contribute to vibrant, successful communities and enable individual citizens to escape cycles of poverty and become self-sufficient.

% of **all** jobs in Missouri require middle-skill level training

Middle-skill level training is essential for about: 97% of industrial maintenance jobs 70% of manufacturing jobs

25% of Saint Joseph residents are employed in skilled positions in creation or manufacturing

Three major industries are prevalent in Buchanan County and the surrounding area – **industrial products and manufacturing, agricultural/food processing, and construction and support services.** There is a substantial convergence in the technologies these sectors rely upon, such as controls, electronics, pneumatics, and hydraulics. Recent studies suggest that strong job growth will take place in industrial technology, mechanical technology, and construction technology. Yet before we can capitalize on that opportunity, we must first overcome the huge gap in today's skilled manufacturing workforce. Nearly two-thirds of Northwest Missouri manufacturers already report grappling with scarcity of skilled workers and with serious deficiencies in the level of skills possessed by the labor available.

The Houlne Center for Convergent Technology is the Solution

Missouri Western State University (MWSU), in partnership with North Central Missouri College (NCMC), will grow the region's skilled manufacturing and construction workforce by establishing the Houlne Center for Convergent Technology. The Center will be home to a collaborative educational program delivering practical, applied learning in skilled manufacturing and construction professions as well as innovative service technologies such as cybersecurity and novel applications of sensor technology and information technology that drive those sectors.

The Center houses applied-learning labs that mirror the equipment and facilities that are used in today's – and tomorrow's – industrial maintenance, manufacturing technology, and construction technology employers' factory floors. It is also home to innovative IT resources, including GIS, robotics, cybersecurity, and more.

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The Houlne Center will:

- Be nearly 100% lab space for direct, applied learning; there are no offices.
- Incorporate essential aspects of training considered industry best practices.
- Be highly flexible and equipped with an eye toward the future needs of the next generation of manufacturing technology.

Delivering Flexible, Customized Training to Meet Industry Demand

Whether training incumbent manufacturing workers in higher-level workforce skills or preparing future workers through programs ranging from short-term, specialized certificates and microcredentials to two- or four-year technical degrees, the Center will offer a seamless package of custom training to meet industry needs. The Center will also feature flexible strategies to provide this training through a blend of daytime or evening instruction, co-op, and internship opportunities. Faculty from MWSU and NCMC will be supplemented by "Professors of Practice" – experienced industry experts with a knack for teaching.

Training will take place on multiple levels. Depending on a given business's goals, its employees may receive best practice training in the optimal use of key technologies, improved understanding of system maintenance, greater knowledge of safety protocols, or even mastery of a novel application of an existing technology that will benefit the bottom line.

The highly flexible building design enables easy reconfiguration of equipment throughout the building. High bays provide easy access to larger equipment and a separate storage building and supply depot provide secure storage of raw materials, from steel to various types of soil and aggregate.

A Dynamic Home for Education and Training

The Houlne Center will be a bustling hub of manufacturing and construction training. Visitors will include employees and leaders of regional industries, college and university students, professors of practice, university faculty, chamber of commerce leadership, government leaders and economic development professionals, prospective new industries considering relocation, equipment vendors, maintenance professionals, and more. Industrial partners and investors will enjoy the following benefits:

- Train and "upskill" current employees
- Deliver customized training to future hires
- Increase the regional skilled labor pool and reduce employee retention costs and effort
- Explore new equipment and novel applications without impacting working production lines
- Improve maintenance and safety training
- Engage upstream suppliers and make them cheaper, more reliable suppliers
- Promote our partners' brands in a dynamic business environment
- Showcase manufacturing equipment in an environment rich with potential customers
- Identify new partnerships with regional businesses
- Attract new vendors, customers, and partners to the region

Sustaining the Houlne Center

unds will continue to be sought to sustain the Center's operation, to continue to expand and update its capabilities, and to support innovations in education and training.

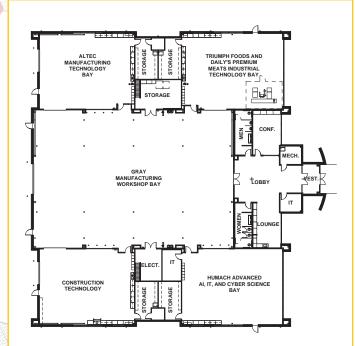
- Continued government support will be key to maximizing the Center's use and impact on economic development.
- Individual donors can establish operating endowments or make one-time or multi-year contributions to solidify a spectacular legacy of commitment to community prosperity and helping bring good jobs to the region.

Industry partners are invited to:

- Contribute funds to the Houlne Center or sponsor its activities. Branding opportunities for signage throughout the facility are available.
- Consign or donate equipment that reflects your current operations. All equipment must be in safe, effective working condition.



FLOOR PLAN



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